

TITLE

ELECTRICALLY CONDUCTING ORGANIC POLYMER/NANOPARTICLE  
COMPOSITES AND METHODS FOR USE THEREOF

ABSTRACT OF THE INVENTION

5 Compositions are provided comprising aqueous dispersions of electrically conducting organic polymers and a plurality of nanoparticles wherein pH can be adjusted for improved organic electronic device performance. Films deposited from invention compositions are useful as buffer layers in electroluminescent devices, such as organic light emitting  
10 diodes (OLEDs) and electrodes for thin film field effect transistors. Buffer layers containing nanoparticles may have a much lower conductivity than buffer layers without nanoparticles. In addition, when incorporated into an electroluminescent (EL) device, buffer layers according to the invention contribute to higher stress life of the EL device.

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MAC/dmm